



# **UNECE activities towards sustainable and energy efficient transport**

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# United Nations Economic Commission for Europe UNECE

UNECE is:

- United Nations agency
- Part of the UN Secretariat
- One of the five regional economic commissions of the United Nations established under UN ECOSOC
- Host of UN Inland Transport Committee (ITC)
- Custodian of 59 Conventions for inland transport



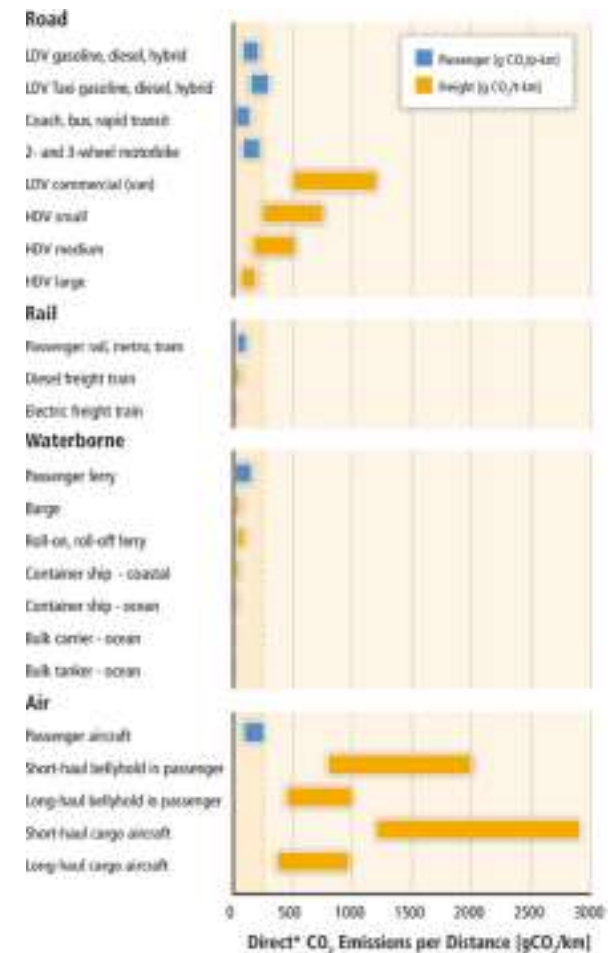
# Activities at Inland Transport Committee, ITC

- Inland Transport Committee Strategy until 2030
  - Climate change is considered a cross-cutting subject
  - One of the main priorities
- The Committee, its relevant Working Parties and the secretariat have been working to contribute to mitigation and adaptation measures of member States for climate change
- High-level policy, regulatory and institutional support at the level of the Committee's decisions and endorsed Ministerial Resolutions and Declaration.
- 85<sup>th</sup> session of Inland Transport Committee 20 to 24 February 2023.
  - ITC ministerial high-level segment on “Actions of the inland transport sector to join the global fight against climate change”, scheduled for Tuesday, 21 February 2021



# Analysis and Assessment

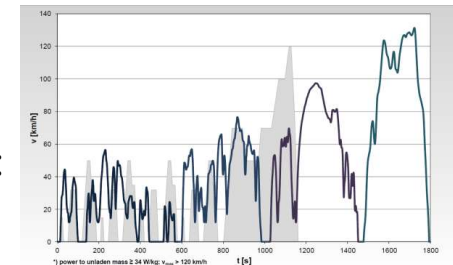
- Assessment of impact on transport and adaptation measures,
  - Working Party on Road Transport (SC.1),
  - Working Party on the Standardization of Technical and Safety Requirements in Inland Navigation (SC.3/WP.3), and
  - Working Party on Transport Trends and Economics (WP.5);



# Regulatory activities road vehicles



- Regulatory framework for deployment of safe electric and hydrogen vehicles, by the World Forum for Harmonization of Vehicle Regulations (WP.29),
  - UN Regulation No. 100 and UN GTR No. 20 on electric vehicle safety,
  - UN Regulation No. 134 and UN GTR No. 13 on Hydrogen and fuel cell vehicles safety;
- Regulatory framework for emission reduction and fuel efficiency by WP.29
  - measuring CO<sub>2</sub> and pollutant emissions from road vehicles via worldwide harmonized test cycles for motorcycles, cars and vans (LDVs), and trucks, buses and non-road mobile machines HDVs
    - UN GTRs Nos. 2 (PTW), 4 (HDV) and 15 (LDV)
    - UN Regulations Nos. 53 (PTW), 49 (HDV), and 83 and 154 (LDV)
- Regulatory framework on engine efficiency and durability (incl electric vehicles):
  - CO<sub>2</sub> emissions: Regulation No. 101 on fuel consumption and CO<sub>2</sub> emissions
  - Battery durability: UN GTR No. 22 on vehicle battery durability
- (under development) the Life-cycle Assessment (LCA) regulatory framework to measure the life-cycle emission of carbon of vehicles, including during manufacturing, use and end-of-life phases of the vehicle;



# Inland water transport and intermodal transport

- Regulatory framework for greening inland water transport fleet, infrastructure and operations by WP.3/SC.3
- Intermodal system and modal shift from road to more environmentally sound modes, by the Working Party on Rail Transport (SC.2) and the Working Party on Intermodal Transport and Logistics (WP.24)



# Green transport and mobility

- Promotion and facilitation of green transport and mobility by WP.5
- the Transport, Health and Environment Pan-European Programme (THE PEP)
- Studies and publications,
- Capacity building

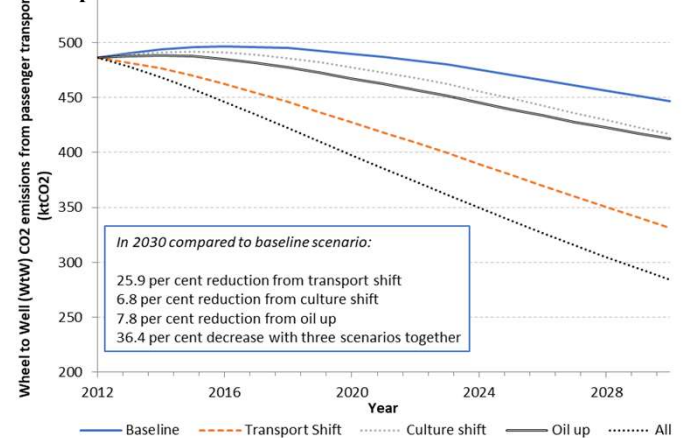




# Tools and activities

- For Future Inland Transport Systems model (ForFITS),
- Digitalization in Transport
  - e-CMR
  - e-TIR
- Intelligent Transport System

**Kaunas city Well to Wheel (WtW) CO<sub>2</sub> emissions from passenger transport under different scenarios**



## Highlights from 2021-2022

Working Parties activities



- SC.3 (RIS, automation & smart shipping)
- WP.15 (Telematics)
- WP.1 (Is considering for its PoW a framework of key principles for automated vehicle safety and human centered needs)
- WP.29 (Amendment to FDAV, adoption of EDR etc.)
- GRVA (Drafting ALKS for Trucks, Guidelines for Automated Driving Systems, AI, remote access to in-vehicle data etc.)
- WP.24 (Digitalization of transport documents)
- SC.2 (ITS as support to the rail sector competitiveness, digitalization of transport documents)
- SC.1 (Presentation on managing a vehicle's life cycle with blockchain technology)





# Conclusions

- UNECE ITC plays a key role in combating climate change and has significantly contributed to the global agenda and member States' efforts by applying a holistic approach with cooperation among the Committee's Working Parties and external stakeholders supporting countries with
  - Regulatory framework,
  - Policy support,
  - Intergovernmental support, with emphasis on regional/interregional priorities and needs, and
  - capacity building and advice, with emphasis on national/subregional priorities and needs.





**Thank you!**

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